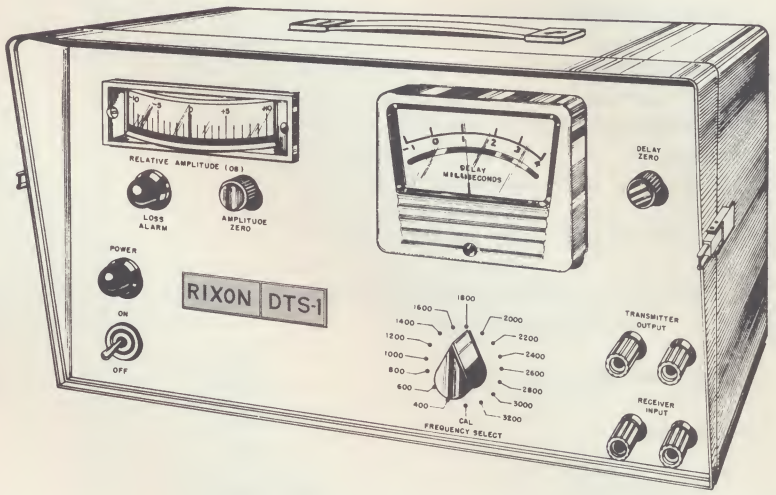
DTS-1

ENVELOPE DELAY TEST SET

A portable field instrument for fast, easy delay measurement



DESCRIPTION: The Rixon DTS-1 Envelope Delay Test Set provides accurate measurements of the relative envelope delay and amplitude of 3 Kc communication circuits in the band of 400 to 3200 Hz. The set's lightweight, compact design, simplified controls for easy, fast measurement, and low cost make it a valuable tool in the control of delay distortion.

PACKAGING: The test set is made up of an independent transmitter and a receiver. Incorporation of these two functions into a single package weighing less than 20 pounds makes the set ideal for bi-directional field use. The set can be also packaged for rack mounting or the transmitter and receiver sections packaged individually for uni-directional operation.

OPERATION: The transmitter section is connected to the line to be tested and the power turned on. No other actions are required. At the receive end the operator turns on the power, zeros the delay and amplitude meters and rotates the sixteen position frequency select switch through all positions while reading the meters. Relative delay and amplitude measurements are obtained simultaneously in a few seconds.

For application information and prices contact:

RIXON ELECTRONICS, INC.
2120 Industrial Parkway Silver Spring, Maryland 20904
Telephone 301-622-2121

DTS-1 DELAY TEST SET

An alarm light is included to warn of excessive line loss. No order wire, sync channel or other communications link is required between the transmitter and the receiver. All measurements are accomplished by a single operator at the receive end of the circuit being tested.

THEORY OF OPERATION: The DTS-1 transmitter provides energy in the frequency spectrum at every harmonic of 200 Hz and sidebands about these harmonics at ±50 Hz. The receiver detects the eighth harmonic (1600 Hz) and its sidebands (1550 and 1650 Hz) to establish a reference 50 Hz signal. All delay measurements are relative to the delay at 1600 Hz.

TECHNICAL SUMMARY

ELECTRICAL SPECIFICATIONS

Delay Range	-1 to +4 msec.
Delay Accuracy	±25 μ sec.
Frequency Range	400 to 3200 Hz
Amplitude Measurement Accuracy	±0.5 db
Transmitter Output	-14 dbm into 600 ohms
Receiver Input	-14 to -44 (0 to 30 db loss)
Readout	1. Relative envelope delay meter 2. Relative amplitude meter

MECHANICAL SPECIFICATIONS

Size (including case)	10" high x 16" wide x 9" deep (including cover)
Weight	Approximately 20 pounds

Also available for rack mounting with the transmitter and receiver in combination or in separate packages.

Specifications subject to change without notice

RIXON ELECTRONICS, INC.

FIRST CLASS
PERMIT NO. 846
SILVER SPRING
MARYLAND

BUSINESS REPLY MAIL

No Postage Stamp Necessary if Mailed in the United States

Postage will be paid by:

RIXON ELECTRONICS, INC.

2120 INDUSTRIAL PARKWAY

SILVER SPRING, MARYLAND 20904

☐ Please send me all information about the Rixon Delay Test Set as it is published.

The possible application I have for the set is:

_____

_____

_____

☐ Please have a Rixon representative contact me.

Name _____

Title _____

Firm _____

Address _____

City _____ State _____ ZIP _____

Telephone _____ Ext. _____